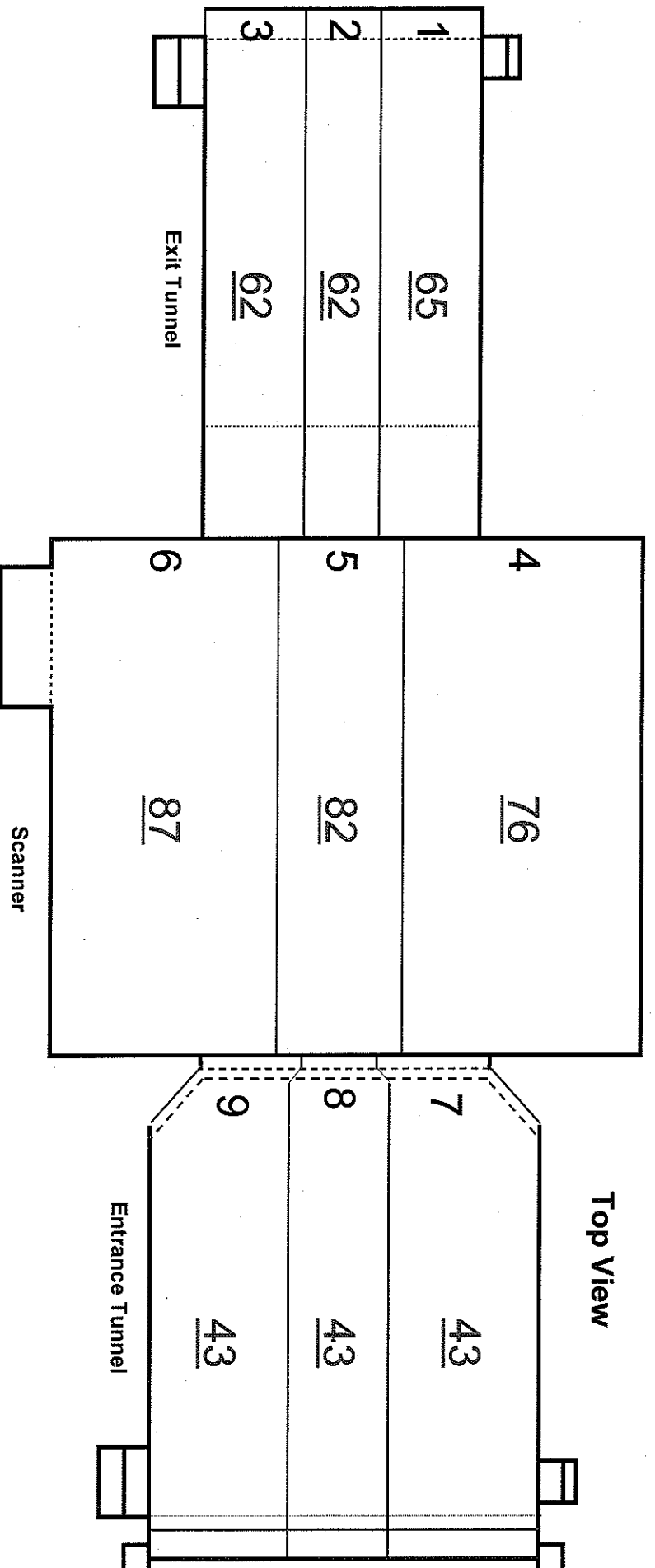


RADIATION SURVEY WORKSHEET

eXaminer Radiation Survey Information

Airport: PHL		Scanner Location: PHL		Case#: PHL	
Personnel Performing Radiation Survey: PHL					
Scanner Serial Number: 6100		Entrance Tunnel Serial Number: 10684		Date Survey Performed: 5/25/2010	
High Reading: 87	Average Reading: 49.12	Min. Reading: 21	High Reading: 99	Average Reading: 43.85	Min. Reading: 27
Good			Good		
Radiation Meter: Type Meter: 451P		Meter Serial Number: 6647		Calibration Due Date: April 20, 2011	
N O T E S					
Complete Radiation Survey (CRS)			Record Voltage and Bean Current here:		
Rename this Document before starting the Survey to:			Voltage: 165 KV Beam Current: 10.0 mA		
PHL-CRS-25MAY2010-6100			Maximum Safe Readings Scanner 350 Tunnels 350 Curtains 350		
Step	Procedure		Expected results		
1.	Set Up: Obtain Invision Ion Chamber Survey Meter and in an area away from the scanners, turn on the meter by pressing the On-Off key. Wait approx. 4 minutes for the meter to run through the initialization procedure.		The GUI will be visible and will indicate Standby. After the radiation meter initialization procedure is complete the meter will be reading less than 20 uR/hr and the meter will be ready for use.		
2.	The scanner will be in Standby. Change the conveyor switch on the scanner to Stop. Change the exit tunnel conveyor switch to Off to stop the conveyor.		Both conveyors should be stopped.		
3.	On the GUI dropdown screen, select diagnostic, followed by Radiation Survey. A radiation survey window will appear. Click "Turn On" button to turn x-rays on. Turn on x-rays prompt will say "Place survey bag on belt". Place IQTK bag on Entry Conveyor Belt.		A window indicating "Radiation Survey" will appear.		
4.	When "Bag in survey position" appears, go to the FCC monitor and select "2" then <Enter>, verify and record the voltage and current in the displayed on the FCC screen in the planks provided above.		The high voltage is between 144KV and 176KV. The current is between 8.8mA and 10.6mA and the scanner X-ray indicator lights are on.		
5.	Survey one of the areas indicated by the boxes in Appendix A2. Record the highest reading within the area. Repeat the process until all areas are surveyed and readings are recorded.		As the survey is conducted, the radiation meter indicates the degree of radiation emission.		
6.	Review all radiation data sheets for high readings.		Readings shall not exceed 350 uR/hr in any box.		
7.	After radiation survey is complete, click on "Start Conveyor" button on the GUI. Click the "Turn Off" button to turn off x-rays. Next click "Done". The IQTK bag will eject from exit tunnel. EDAC will reboot.		IQTK bag is ejected and scanner reboots.		
7.	Visually inspect the entrance and exit of the system for X-ray caution hazard signs.		X-ray hazard signs reading "Do not insert any part of the body when system is energized" are posted at entrance and exit of system.		
9.	Fill out the eXaminer radiation stickers and place on the eXaminer in accordance with Examiner Technical Bulletin ex253.		Readings shall not exceed 350 uR/hr in any box.		

RADIATION SURVEY WORKSHEET

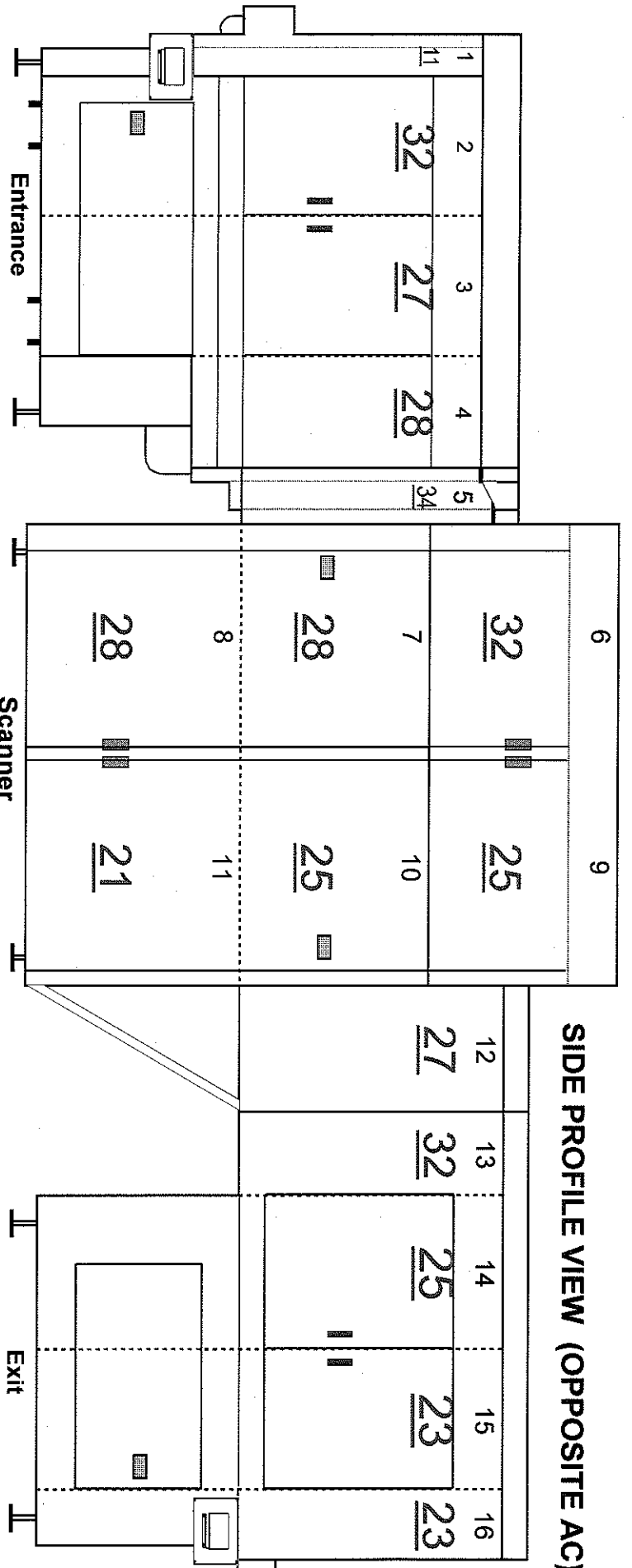


Top View		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel	µR/Hr	No PROBLEM
1 Exit Conveyor Top Panel	65	
2 Exit Conveyor Top Panel	62	
3 Exit Conveyor Top Panel	62	
4 Scanner Conveyor Top Panel	76	
5 Scanner Conveyor Top Panel	82	
6 Scanner Conveyor Top Panel	87	
7 Entrance Conveyor Top Panel	43	
8 Entrance Conveyor Top Panel	43	
9 Entrance Conveyor Top Panel	43	

GOOD

Highest Reading	87
Average Reading	63
Lowest Reading	43

RADIATION SURVEY WORKSHEET

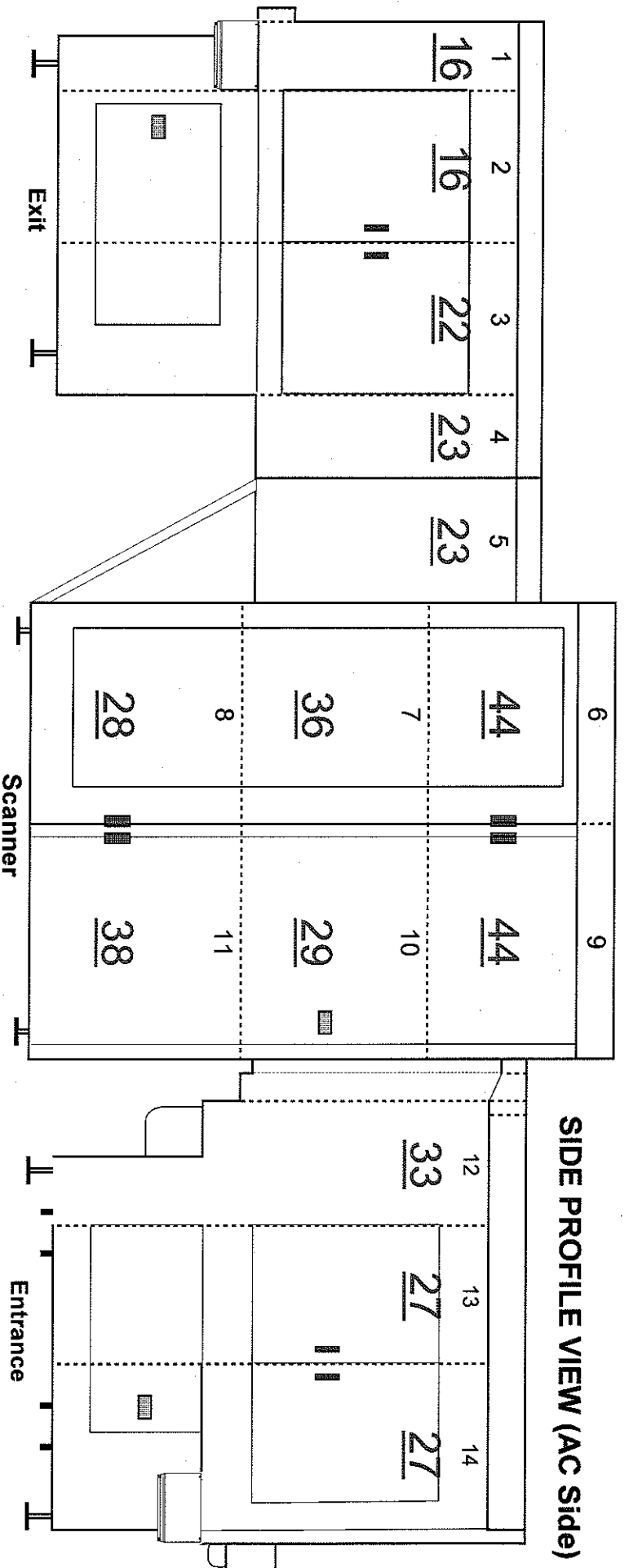


SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel	µR/hr	No PROBLEM
1 Entrance Conveyor Panel	11	
2 Entrance Conveyor Panel	32	
3 Entrance Conveyor Panel	27	
4 Entrance Conveyor Panel	28	
5 Entrance Conveyor / Scanner Panel	34	
6 Upper Scanner Panel	32	
7 Middle Scanner Panel	28	
8 Lower Scanner Panel	28	
9 Upper Scanner Panel	25	
10 Middle Scanner Panel	25	
11 Lower Scanner Panel	21	
12 Exit Conveyor / Scanner Panel	27	
13 Exit Conveyor Panel	32	
14 Exit Conveyor Panel	25	
15 Exit Conveyor Panel	23	
16 Exit Conveyor Panel	23	

GOOD

Highest Reading	34
Average Reading	26
Low Reading	11

RADIATION SURVEY WORKSHEET



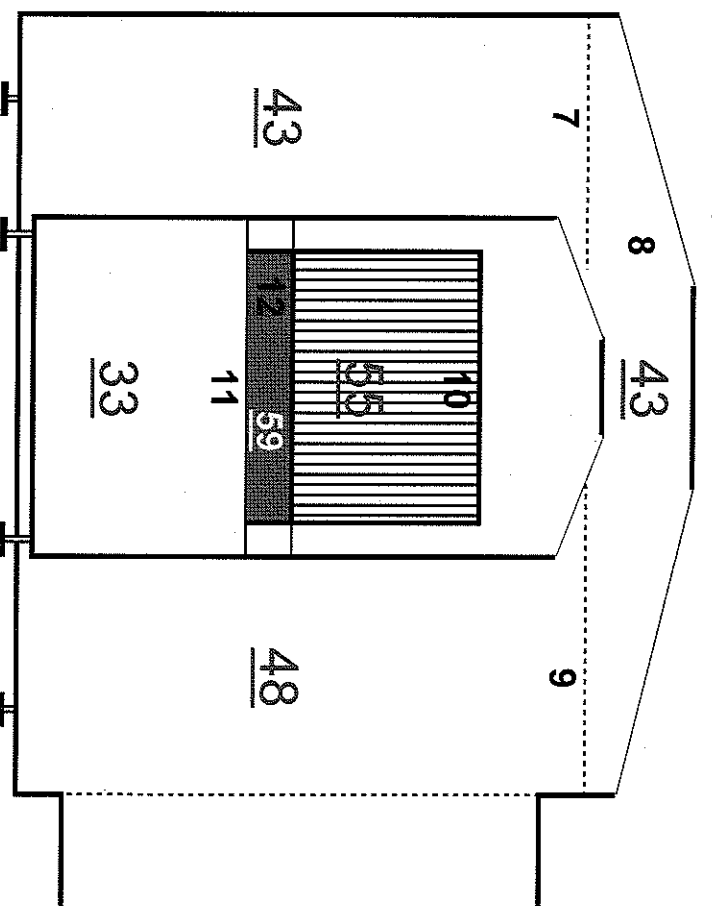
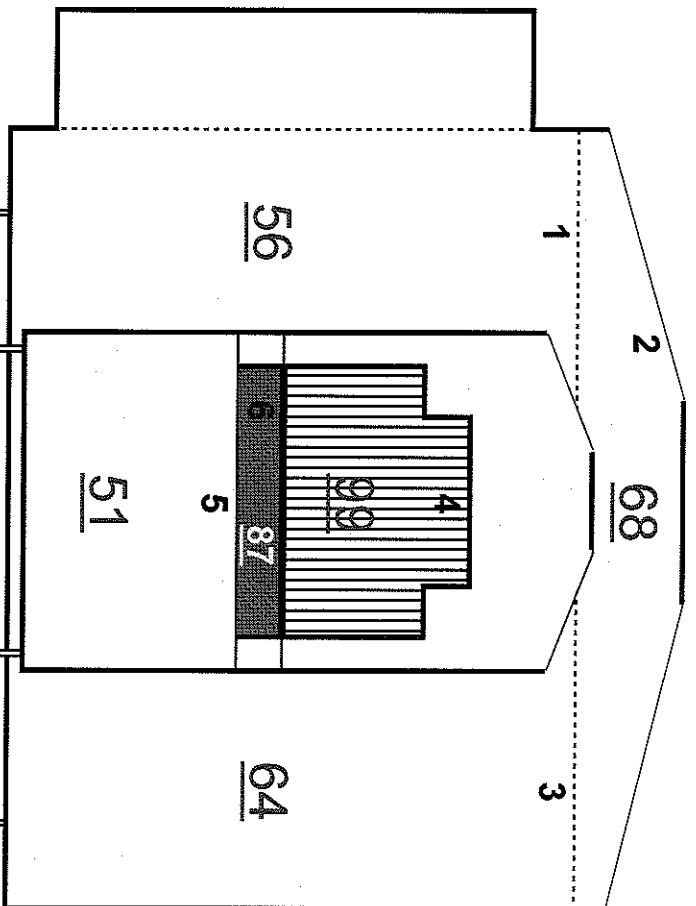
SYSTEM - SIDE PROFILE VIEW (AC Side)		
Scattered Radiation Measurement Points Worksheet		No PROBLEM
Record highest reading per panel		
		µR/Hr
1	Exit Conveyor Panel	16
2	Exit Conveyor Panel	16
3	Exit Conveyor Panel	22
4	Exit Conveyor Panel	23
5	Exit Conveyor / Scanner Panel	23
6	Upper Scanner Pane	44
7	Middle Scanner Panel	36
8	Lower Scanner Panel	28
9	Upper Scanner Panel	44
10	Middle Scanner Panel	29
11	Lower Scanner Panel	38
12	Entrance Conveyor / Scanner Panel	33
13	Entrance Conveyor Panel	27
14	Entrance Conveyor Panel	27

GOOD

Highest Reading	44
Average Reading	29
Low Reading	16

RADIATION SURVEY WORKSHEET

SYSTEM - FACES (End Views)



SYSTEM - FACES (End Views)		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel	$\mu\text{R}/\text{Hr}$	No PROBLEM
1 Scanner Panel	56	
2 Scanner Top Panel	68	
3 Scanner Panel	64	
4 Belt Entrance	99	
5 Entrance Lower Panel	51	
6 Belt Lower Facia Cover Entrance	87	
7 Scanner Panel	43	
8 Scanner Top Panel	43	
9 Scanner Panel	48	
10 Belt Exit	55	
11 Exit Lower Panel	33	
12 Belt Lower Facia Cover Exit	59	

examiner exit

GOOD

Highest Reading	99
Average Reading	59
Low Reading	33